

CSE

Cooperative Space Experiment Program

U.S. Army Space and Missile Defense Command
Space and Missile Defense Technical Center

The Cooperative Space Experiment (CSE) Program Goal: Place on orbit a capability to evaluate low power acquisition and tracking lasing of spacecraft by current and future Army and Joint space surveillance systems.

Objectives:

- Provide a full technology demonstration of Army and Air Force ground-based acquisition and tracking lasers for transition to operational fielding.
- Collect and test low powered laser propagation data in the full atmosphere-to-space-environment.
- Validate Army space data requirements via a Joint instrumented space test range experiment program.

CSE Payload:

Laser Threat Warning & Attack Receiver (LTWAR) – Integrated time history calibrated dosimeter.

Data Customers:

- Army Space and Missile Defense (SMD) Technical Center Directed Energy Division
- Army SMDC Space Battle Lab
- Army Training and Doctrine Command
- Army Test and Evaluation Command
- U.S. Army Space and Missile Defense Command (SMDC) Force Development Integration Center
- Other Service Laser Material and Concept Developers

Current and Ongoing Efforts:

SMDC teamed with Air Force Research Lab (AFRL)/SNJT LTWAR to integrate Army experimental low power laser data collection requirements in an AFRL sensor system program for on orbit space experiment instrumentation.

Warfighter Payoff:

Experiment data customers have validated modeling and simulation data to develop ground-based acquisition and tracking laser systems and perform Space Battle Lab experimentation.

Joint Space Test Range provides a hands-on space experiment capability for Army Space combat developers to develop training and tactics, techniques, and procedures for system operators.

Primary Product:

Truth data to develop ground-based acquisition and tracking laser systems and validate simulation models.

Key Technologies:

- Space: AFRL/SNJT Laser Threat Warning & Attack Receiver.
- Ground: Army and Joint ground-based acquisition and tracking laser systems.

For more information, please contact:

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